

IN THE CLAIMS:

Please cancel Claims 3, 5 and 14 without prejudice or disclaimer of subject matter. Please amend Claims 1, 2, 4, 6 to 12, 15, 17 and 18, and add Claims 22 and 23 as follows. The claims, as pending in the subject application, read as follows:

1. (Currently Amended) A fluctuation detecting apparatus including comprising:
 - a light receiving portion which detects ~~for detecting~~ an image signal for an object in each of a plurality of areas;
 - a judging circuit for judging from the image signal obtained in each of said areas whether an object located at a long distance is mixed with an object located at a short distance; and
 - a fluctuation amount calculating circuit which switches over in accordance with a judging result of said judging circuit, between a case in which a rotational fluctuation amount and a shift fluctuation amount are calculated from the image signals obtained by said light receiving portion and a case in which the rotational fluctuation amount and the shift fluctuation amount are not calculated ~~for independently finding fluctuation data by the use of the image signal of the area in which said object located at a short distance exists and the image signal of the area in which said object located at a long distance exists when said judging circuit judges that the object located at a long distance is mixed with the object located at a short distance, and calculating a rotational fluctuation amount and a shift fluctuation amount on the basis of said fluctuation data.~~

2. (Currently Amended) A fluctuation detecting apparatus ~~according to Claim 1, comprising:~~

a light receiving portion which detects an image signal for an object in each of a plurality of areas;

a distance calculating circuit which calculates the distance to the object in each of said areas from the image signal obtained in each of said areas; and

~~wherein said~~ a fluctuation amount calculating circuit which separates the rotational fluctuation amount and the shift fluctuation amount from the difference between the fluctuation data obtained from the image signal of the area in which an said object is located at a short distance and the fluctuation data obtained from the image signal of the area in which an said object is located at a long distance.

3. (Cancelled)

4. (Currently Amended) A fluctuation detecting apparatus ~~including:~~
according to Claim 1, further comprising:

~~a light receiving portion for detecting an image signal for an object in each of a plurality of areas;~~

a distance calculating circuit ~~for calculating~~ which calculates the distance to the object in each of said areas from the image signal obtained in each of said areas~~[[; a]]~~,
wherein said judging circuit for ~~judging~~ judges from the distance to the object in each of

said areas whether ~~an~~ the object located at [[a]] said long distance is mixed with ~~an~~ the object located at [[a]] said short distance; and

~~a fluctuation amount calculating circuit for independently finding fluctuation data by the use of the image signal of the area in which said object located at a short distance exists and the image signal of the area in which said object located at a long distance exists when said judging circuit judges that the object located at a long distance is mixed with the object located at a long distance is mixed with the object located at a short distance, and calculating a rotational fluctuation amount and a shift fluctuation amount on the basis of said fluctuation data.~~

5. (Cancelled)

6. (Currently Amended) A fluctuation detecting apparatus according to Claim [[5]] 2, wherein said fluctuation amount calculating circuit makes the difference between the fluctuation data obtained from the image signal of said object located at [[a]] said short distance and the fluctuation data obtained from the image signal of said object located at [[a]] said long distance into the shift fluctuation amount.

7. (Currently Amended) A fluctuation detecting apparatus according to Claim [[4]] 1, wherein said judging circuit compares the distance to the objects obtained from the image signal of each area calculated by said distance calculating circuit with a threshold value to thereby detect the object located at [[a]] said short distance and the object located at [[a]] said long distance.

8. (Currently Amended) A fluctuation detecting apparatus according to Claim [[4]] 2, wherein said fluctuation amount calculating circuit selects the nearest object when a plurality of objects at [[a]] said short distance are detected by said judging circuit, and selects the farthest object when a plurality of objects located at [[a]] said long distance are detected, and calculates the fluctuation amount.

9. (Currently Amended) A fluctuation detecting apparatus according to Claim [[1]] 2, wherein said light receiving portion is a line sensor.

10. (Currently Amended) A fluctuation detecting apparatus according to Claim [[1]] 2, wherein said light receiving portion is a two-dimensional area sensor.

11. (Currently Amended) An apparatus with the fluctuation detecting function including comprising:

a light receiving portion for detecting an image signal for an object in each of a plurality of areas;

a distance calculating circuit which calculates the distance to the object in each of said areas from the image signal obtained in each of said areas;

~~a judging circuit for judging from the image signal obtained in each of said areas whether an object located at a long distance is mixed with an object located at a short distance;~~

a fluctuation amount calculating circuit which separates the rotational fluctuation amount and the shift fluctuation amount from the difference between the

fluctuation data obtained from the image signal of the area in which an object is located at a short distance and the fluctuation data obtained from the image signal of the area in which an object is located at a long distance ~~for independently finding fluctuation data by the use of the image signal of the area in which said object located at a short distance exists and the image signal of the area in which said object located at a long distance exists when said judging circuit judges that the object located at a long distance is mixed with the object located at a short distance, and calculating a rotational fluctuation amount and a shift fluctuation amount on the basis of said fluctuation data;~~

a first correction device for correcting rotational fluctuation on the basis of the rotational fluctuation amount calculated by said fluctuation amount calculating circuit; and

a second correction device for correcting shift fluctuation on the basis of the shift fluctuation amount calculated by said fluctuation calculating circuit.

12. (Currently Amended) An apparatus with the fluctuation detecting function according to Claim 11, further comprising a judging circuit for judging from the image signal obtained in each of said areas whether an object located at a long distance is mixed with an object located at a short distance, wherein when said judging circuit judges that the object located at a long distance is not mixed with the object located at a short distance, one of said first correction device and said second correction device is driven.

13. (Original) An apparatus with the fluctuation detecting function according to Claim 11, wherein said first correction device corrects the rotational fluctuation by changing the angle of incidence of a beam incident on a light receiving surface, and said second correction device corrects the shift fluctuation by moving the light receiving surface and an optical system as a unit.

14. (Cancelled)

15. (Currently Amended) A fluctuation detecting apparatus ~~according to Claim 14, comprising:~~

a fluctuation amount calculating circuit for detecting a fluctuation state and obtaining a fluctuation state signal for each of an object located nearer than a first predetermined distance and an object located farther than a second predetermined distance, and calculating a rotational fluctuation amount and a shift fluctuation amount from the fluctuation state signal obtained for each object,

wherein said calculating circuit calculates said shift fluctuation amount from the difference between the fluctuation state signal detected for the object located nearer than said first predetermined distance and the fluctuation state signal detected for the object located farther than said second predetermined distance.

16. (Original) A fluctuation detecting apparatus according to Claim 15, wherein a rotational fluctuation amount is calculated from the fluctuation state signal detected for the object located farther than said second predetermined distance.

17. (Currently Amended) A fluctuation detecting apparatus according to Claim [[14]] 15, further ~~including~~ comprising:

a light receiving portion for receiving images from said objects; and

wherein said fluctuation amount calculating circuit detects the fluctuation state on the basis of the difference between the positions of the images on said light receiving portion at a time interval between the images being received by said light receiving portion.

18. (Currently Amended) An apparatus with the fluctuation detecting function ~~including~~ comprising:

a fluctuation amount calculating circuit for detecting a fluctuation state and obtaining a fluctuation state signal for each of an object located nearer than a first predetermined distance and an object located farther than a second predetermined amount and a shift fluctuation amount from the fluctuation state signal obtained for each object;

a first correction device for correcting the angle of incidence of a beam incident on a light receiving surface on the basis of the rotational fluctuation amount obtained by said fluctuation amount calculating circuit; and

a second correction device for moving the light receiving surface and an optical system as a unit in the direction of translation on the basis of the shift fluctuation amount obtained by said fluctuation amount calculating circuit.

19. (Original) An apparatus with the fluctuation detecting function according to Claim 18, wherein when said objects are single, one of said first and second correction devices is operated by the fluctuation state signal obtained for said object.

20. (Original) An apparatus with the fluctuation detecting function according to Claim 18, wherein said first correction device corrects rotational fluctuation by changing the angle of incidence of the beam incident on the light receiving surface, and said second correction device corrects shift fluctuation by moving the light receiving surface and the optical system as a unit.

21. (Original) An apparatus with the fluctuation detecting function according to Claim 11, which is a camera.

22. (New) A fluctuation detecting method, comprising the steps of:
detecting an image signal for an object in each of a plurality of areas;
judging from the image signal obtained in each of said areas whether an object located at a long distance is mixed with an object located at a short distance; and
switching over in accordance with a judging result of said judging step, between a case in which a rotational fluctuation amount and a shift fluctuation amount are calculated from the obtained image signals and a case in which the rotational fluctuation amount and the shift fluctuation amount are not calculated.

23. (New) A fluctuation detecting method, comprising the steps of:
detecting an image signal for an object in each of a plurality of areas;
calculating the distance to the object in each of said areas from the image
signal obtained in each of said areas; and
separating the rotational fluctuation amount and the shift fluctuation amount
from the difference between the fluctuation data obtained from the image signal of the area
in which an object is located at a short distance and the fluctuation data obtained from the
image signal of the area in which an object is located at a long distance.